

Message

From: Wolf, Joel [Wolf.Joel@epa.gov]
Sent: 2/23/2021 4:41:14 PM
To: Henry, Tala [Henry.Tala@epa.gov]; Le, Madison [Le.Madison@epa.gov]; Williamson, Tracy [Williamson.Tracy@epa.gov]
CC: Canavan, Sheila [Canavan.Sheila@epa.gov]; Symmes, Brian [Symmes.Brian@epa.gov]; Mottley, Tanya [Mottley.Tanya@epa.gov]
Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Yes, LCPFAC SNUR and TRI definitions are the same. It was sorted out last spring for the TRI NDAA effort (I know you know that Tala, but others on this chain probably don't)

I think I'm not looped in on everything, so wasn't aware of a briefing yesterday. Also, wasn't aware of the review of OECD/WHO draft on nomenclature, but presume those that need to review have been looped in.

Thanks, Joel

Joel Wolf
Chief, RMB 1
OCSPP/OPPT/ECRMD
US Environmental Protection Agency
WJC East, Room 4121A
202.564.0432, wolf.joel@epa.gov

From: Henry, Tala <Henry.Tala@epa.gov>
Sent: Tuesday, February 23, 2021 7:42 AM
To: Le, Madison <Le.Madison@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Wolf, Joel <Wolf.Joel@epa.gov>
Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

The LCPFC SNUR and TRI definitions are SAME and the latest "TSCA working definitions" as per the briefing yesterday.

This brings me to ask, where is OPPT's review of the OECD/WHO draft on nomenclature?

Eventually, we may want/need to adopt, so need to know if there are specific problems wrt statute (doubt it) or regulation that would be a problem for us....

Tala R. Henry, Ph.D.
Deputy Director
Office of Pollution Prevention & Toxics

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From: Le, Madison <Le.Madison@epa.gov>
Sent: Tuesday, February 23, 2021 7:01 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>; Wolf, Joel <Wolf.Joel@epa.gov>
Cc: Henry, Tala <Henry.Tala@epa.gov>
Subject: Re: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

This is the first time I'm hearing about this. Looks like Laura pointed to the LCPAC SNUR as a recently used definition. My understanding is the definition used in the LCPFAC was for a specific purpose and not one that would be applicable when developing a universal definition. I'd suggest leaning more toward how ICB defined it for Inventory purpose (similar to how we teed it up for Michal yesterday).

Adding Joel In case he is aware of these discussions.

Sent from my iPhone

On Feb 22, 2021, at 7:39 PM, Williamson, Tracy <Williamson.Tracy@epa.gov> wrote:

ORD apparently has been having regular calls with the Michigan PFAS Action Response Team (MPART) on PFAS destruction. There is a call this Thursday, and ORD would like some OPPT (and other) folks to join in. They have been coordinating with Laura. ICB was just made aware yesterday because of a PFAS nomenclature question that came up. Are you aware of this effort? Just checking/trying to stay coordinated.

From: Nazef, Laura <Nazef.Laura@epa.gov>
Sent: Monday, February 22, 2021 10:39 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>; Anapolle, Kent <Anapolle.Kent@epa.gov>
Cc: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Thanks Tracy.

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
Sent: Monday, February 22, 2021 10:33 AM
To: Anapolle, Kent <Anapolle.Kent@epa.gov>; Nazef, Laura <Nazef.Laura@epa.gov>
Cc: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Hi Laura,

OPPT uses CAS systematic nomenclature conventions to name individual substances under TSCA. The 1000+ substances on the TSCA Inventory, for example, are named using CAS nomenclature. Please contact Kent Anapolle if you have any questions.

Tracy

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Monday, February 22, 2021 9:42 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: FW: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

From: Nazef, Laura <Nazef.Laura@epa.gov>
Sent: Thursday, February 18, 2021 5:38 PM

To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Cc: Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: FW: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Hi Kathy,

Please see the request below. Are you aware of an EPA naming protocol for PFAS? Can I identify you as a contact to discuss this with NIST?

Thanks, Laura

From: Mills, Marc <mills.marc@epa.gov>
Sent: Thursday, February 18, 2021 5:11 PM
To: Nazef, Laura <Nazef.Laura@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>
Subject: FW: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Laura and Tony

I have received a similar request regarding naming conventions for PFAS This request (attached) is from NIST. They are funded by DoD to develop a PFAS mass spectrometry library for high res non-targeted analysis. ORD is engaged as one of the funded PFAS forensic projects that will support this library. In this effort, they want to adopt a standard naming convention and it was suggested EPA has developed or adopted such a convention. This is a bit far afield from the PFAS work I do, so I reaching out to you to see if I can provide NIST your contact info for a conversation on this.

Your help is appreciated.

Thanks
Marc

Marc A. Mills, Ph.D.

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From: Matthews, Lisa <Matthews.Lisa@epa.gov>
Sent: Wednesday, 10 February, 2021 03:00 PM
To: Nazef, Laura <Nazef.Laura@epa.gov>; Richard, Ann <Richard.Ann@epa.gov>; Mills, Marc <mills.marc@epa.gov>
Cc: McCabe, Erin <mccabe.erin@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>; Patlewicz, Grace <Patlewicz.Grace@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>
Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Laura and Tony,

Would you be willing to speak to this issue on our call with MPART on Feb 25 from 10-11 AM? These are technical exchanges by EPA and MPART. We have a couple of other agenda topics in the works.

Thank you,
Lisa Matthews

From: Nazef, Laura <Nazef.Laura@epa.gov>

Sent: Wednesday, February 10, 2021 2:55 PM

To: Richard, Ann <Richard.Ann@epa.gov>; Matthews, Lisa <Matthews.Lisa@epa.gov>; Mills, Marc <mills.marc@epa.gov>

Cc: McCabe, Erin <mccabe.erin@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>; Patlewicz, Grace <Patlewicz.Grace@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>

Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Hi all,

In case this is helpful as you gather information for your call, there is a definition for long-chain perfluoroalkyl carboxylate (LCPFAC) chemicals in the recent TSCA SNUR:

<https://www.federalregister.gov/documents/2020/07/27/2020-13738/long-chain-perfluoroalkyl-carboxylate-and-perfluoroalkyl-sulfonate-chemical-substances-significant>

Here is the chemical structure definition used:

b) *Chemical substances and significant new uses subject to reporting.* (1) The chemical substances identified in this paragraph, where $5 < n < 21$ or $6 < m < 21$, are subject to reporting under this section for the significant new uses described in paragraph (b)(4)(i) and (b)(4)(iv) of this section.

(i) $\text{CF}_3 (\text{CF}_2)_n\text{-COO M}$ where $\text{M} = \text{H}^+$ or any other group where a formal dissociation can be made;

(ii) $\text{CF}_3 (\text{CF}_2)_n\text{-CH=CH}_2$;

(iii) $\text{CF}_3 (\text{CF}_2)_n\text{-C(=O)-X}$, where X is any chemical moiety;

(iv) $\text{CF}_3 (\text{CF}_2)_m\text{-CH}_2\text{-X}$, where X is any chemical moiety; and

(v) $\text{CF}_3 (\text{CF}_2)_m\text{-Y-X}$, where Y = non-S, non-N heteroatom and where X is any chemical moiety.

Other offices may have additional information to share regarding PFAS definitions.

Best regards,
Laura

Laura Nazef
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From: Rodan, Bruce <rodan.bruce@epa.gov>
Sent: Tuesday, February 9, 2021 1:33 PM
To: Burden, Susan <Burden.Susan@epa.gov>; Matthews, Lisa <Matthews.Lisa@epa.gov>
Subject: RE: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Lisa,

There have been some debates about defining PFAS – very minutia. Ann Richards in CCTE will know, and Marc Mills worked on a recent manuscript that we back and forth over the OECD definition.

Dr. Bruce Rodan
Associate Director for Science
EPA Office of Research and Development

From: Burden, Susan <Burden.Susan@epa.gov>
Sent: Tuesday, February 9, 2021 12:37 PM
To: Matthews, Lisa <Matthews.Lisa@epa.gov>
Cc: Rodan, Bruce <rodan.bruce@epa.gov>
Subject: RE: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Hi Lisa,

Carlos Pachon is the lead in OLEM for the destruction and disposal guidance, so he would be the person to reach out to for the MPART call.

As far as EPA programs defining PFAS, I'm not aware of any EPA programs that have had to define PFAS "at the organic chemistry level" (i.e., not by CASRNs). I don't know that any of EPA's programs would have much to say about this issue at this point in time.

Thanks,

Susan

Susan Burden, Ph.D.
Scientific Support Advisor & ORD PFAS Executive Lead
Office of Science Advisor, Policy and Engagement
Office of Research and Development
US Environmental Protection Agency
Phone: (202) 564-6308 Ex. 6 Personal Privacy (PP)
Email: burden.susan@epa.gov

From: Matthews, Lisa <Matthews.Lisa@epa.gov>
Sent: Tuesday, February 09, 2021 12:12 PM
To: Burden, Susan <Burden.Susan@epa.gov>
Cc: Rodan, Bruce <rodan.bruce@epa.gov>
Subject: FW: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Hi Susan,

Is the interim destruction guidance from OLEM? Who is point person in OLEM for this issue that we could invite to join the call with MPART?

Also thoughts on how EPA programs are defining PFAS?

Thanks,
Lisa

From: Sliver, Steve (EGLE) <SLIVERS@michigan.gov>
Sent: Tuesday, February 9, 2021 7:51 AM
To: Phelps, Lara <Phelps.Lara@epa.gov>; Matthews, Lisa <Matthews.Lisa@epa.gov>; Watkins, Tim <Watkins.Tim@epa.gov>; Speth, Thomas <Speth.Thomas@epa.gov>
Cc: Zambrana, Jose <Zambrana.Jose@epa.gov>; Mattas-Curry, Lahne <Mattas-Curry.Lahne@epa.gov>; McCabe, Erin <mccabe.erin@epa.gov>; taylorj1@michigan.gov
Subject: RE: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Good morning Lisa,

In addition, would it be possible for someone from EPA to cover next steps with the interim destruction guidance, especially the request for additional field testing and implementation of the interim storage option?

Following up on Joy's presentation of our working description of PFAS last time, we are also interested in how EPA is defining PFAS in its various programs (at the organic chemistry level), understanding that different EPA programs may define PFAS differently. Attached is a paper that provides additional detail on a description; MPART is currently evaluating this paper and determining its implications to the current working description.

Thanks!

Steve

From: Phelps, Lara <Phelps.Lara@epa.gov>
Sent: Monday, February 1, 2021 2:00 PM
To: Matthews, Lisa <Matthews.Lisa@epa.gov>; Sliver, Steve (EGLE) <SLIVERS@michigan.gov>; Watkins, Tim <Watkins.Tim@epa.gov>; Speth, Thomas <Speth.Thomas@epa.gov>
Cc: Zambrana, Jose <Zambrana.Jose@epa.gov>; Mattas-Curry, Lahne <Mattas-Curry.Lahne@epa.gov>; McCabe, Erin <mccabe.erin@epa.gov>
Subject: RE: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

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Hi Lisa –

The two immediate things that come to mind to mention are the AWMA IT3 Paper presented last week - Combustion of C1 and C2 PFAS: Kinetic Modeling and Experiments; and Other Test Method (OTM) – 45, which we will be talking to the larger ECOS community the week before, if there were some additional follow-up.

Thanks!
Lara

Lara P. Phelps, Director

Center for Environmental Measurement and Modeling, Air Methods & Characterization Division
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"Protecting human health and the environment by delivering innovative measurement and modeling solutions to EPA and its partners."

From: Matthews, Lisa <Matthews.Lisa@epa.gov>

Sent: Monday, February 01, 2021 11:59 AM

To: slivers@michigan.gov; Watkins, Tim <Watkins.Tim@epa.gov>; Phelps, Lara <Phelps.Lara@epa.gov>; Speth, Thomas <Speth.Thomas@epa.gov>

Cc: Zambrana, Jose <Zambrana.Jose@epa.gov>; Mattas-Curry, Lahne <Mattas-Curry.Lahne@epa.gov>; McCabe, Erin <mccabe.erin@epa.gov>

Subject: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Good morning,

We have our EPA ORD-MPART quarterly call on PFAS destruction research coming up on Thursday, February 25 from 10-11 AM ET.

Please send [Erin McCabe](#) and me your suggestions for agenda topics by **Monday, February 8** – including any new information to share with the group.

Agenda topics from past calls are listed below:

November 18, 2020

- MPART Working PFAS Description – *Joy Taylor Morgan, Michigan EGLE Air Quality Division's Toxics Unit*
- 6:2 FTS (fluorotelomer sulfonate) Screening Level for Air – *Mike Depa, Michigan EGLE, Air Quality Division's Toxics Unit*
- EPA ORD Research Updates – *Tim Watkins, Director, Center for Environmental Measurement and Modeling, EPA ORD*

August 26, 2020

- Treating PFAS water contamination with cold plasma – *Curt Wolf, University of Michigan*
- Thermal oxidizer design installed at the Chemours Fayetteville Works facility in NC – *Chun-Wai Lee and Bill Linak, EPA ORD*
- Australia cement kiln data for destruction of PFAS – *Chun-Wai Lee and Bill Linak, EPA ORD*
- Pilot scale testing on Rainbow Furnace – *Chun-Wai Lee and Bill Linak, EPA ORD*

June 25, 2020 follow-up call

- Participation in EPA's multi-lab study on a drinking water analytical method with isotope dilution (ultimately a DOD decision)
- Flexibility in drinking water analytical methods for residential wells
 - EPA will continue to only stand behind Methods 537 and 522, MPART can use other methods, but EPA can't comment on the validity of the data

May 28, 2020

- Bench-Scale Tests on Stabilization/Solidification of PFAS-Contaminated Soils and Biosolids – *Dan Cassidy, Western Michigan University*
- Update on EPA's PFAS Innovative Treatment Team – *Brian Gullett, EPA ORD*

- Managing PFAS in Spent Adsorption Media – *Craig Patterson, Tom Speth and Marc Mills, EPA ORD*

March 23, 2020

- ORD researchers discussed current and planned EPA PFAS research with the MPART. They are interested in EPA's PFAS destruction research and decontamination efforts, particularly for fire departments that have used AFFF. ORD provided overview of our PFAS thermal destruction research.

Thank you!

Lisa

Lisa Matthews

Senior Advisor and State Liaison

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